Date: / /

Write a Program to simulate the working of Urcularqueou of integers Vsing an array. Provide the following operations Jasert Pold C Display Overflow conditions # include cstdio. h > # define N 5 int a [N]: INT g [N]=

INT front = -1; rear =-1; void insert (int); int delete (); Void display (): Int n, charce; printf [" In 1. Insert In 2. Delete In 3. Display In 4. East In") print f ("Fiter your giption: \n"); Sconj [".J.d"] & choice); Swith (choice) case ! private (" finter the number to be married in the quee 1. In)

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```
broh;
Case ?:
   n= dddil);
      broak;
      Case 4:
       eart (0);
       default 1.
        print ("Invalid optron In");
  y while Capped = 4);
  void jusert (int nom)
     if (( front == 0 && rear == N-1) 1/ rear (== front _1)))

print ( " | n Dverflow");

else y ( front == -1 & & rear == -1)

$
             fear ++ ;
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g [rear] = nom;
Int delete()
      jut val;
       if (front = = -1 & & rear == -1)
         Print (" In Under flow"),
return -1;
        val = q [front];

if (front == rear)

front = rear =

else
            if (front == N-1)

front = 0;

else

front + 1;
                return vales;
     void display ()
            print ["\n");

if Grant = = -1 && par == -1)

print ["\n Queve is empty");
else
```

papergrid Date: / / if looped Z = rear) for (i = front; i < = rear; itt)

print ("It /d", g (i)); else for Ci= front; i < N; if +)

prints (" \ + 1 d", q \ 7);

for Ci=0; i < = rear; i + +)

prints (" \ + 1 d", q \ 7); atpt 1. Insert 1. Insert 2 Delete 2- Delete 3. Display Giter your option: 3 Exter your option: 1 Exter the number: 6 1. Insert 1. Insert 7. Delete 2. Deleta 3. Display 3. Display 4. Gait Enter your option: Enter your option: 2 The number deleted is: 6